

Abstract

A device determines a torque that is exerted on a shaft, the shaft having a first shaft section and a second shaft section, the two shaft sections being rotatable in relation to one another. The device comprise a multi-pole magnetic ring and a stator support that is fixed to the second shaft section. Two stator elements are fixed to the stator support and each stator element has fingers that project in an axial or radial direction, are uniformly distributed at least over part of the circumference and are interspaced by gaps. The magnetic ring is situated between the fingers of one stator element and the fingers of the other stator element. A second magnetic ring is located on one of the two shaft sections and a magnetic sensor is mounted on one of the two shaft sections.